SEAFORD, DELAWARE – MARYLAND – NEW JERSEY

30 X 60 MINUTE SERIES (TOPOGRAPHIC–BATHYMETRIC)

SCALE 1:100 000

1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND

CONTOUR INTERVAL 5 METERS

SEAFORD, DELAWARE – MARYLAND – NEW JERSEY

38075-E1-TB-100

1984

HYDROGRAPHIC SURVEY INFORMATION

SURVEY NUMBER	SURVEY DATE	SURVEY SCALE	SOUNDING LINE SPACING NAUT. MILES
H-1182	1983	1:20,000	03.96
H-1021	1964	1:20,000	03.10
H-8596	1944	1:10,000	02.13
H-7011	1944	1:10,000	02.07
H-8596	1941-43	1:10,000	03.07
H-8136	1970	1:20,000	04.92
H-8138	1970	1:20,000	04.92
H-8153	1970-71	1:20,000	19.36
H-8174	1970	1:10,000	01.10
H-8175	1971	1:10,000	05.10
H-8092	1971	1:10,000	05.10
H-8203	1971	1:10,000	05.10
H-8204	1971	1:5,000	20.75
H-8210	1972	1:10,000	05.10
H-8311	1972	1:10,000	05.60
H-8313	1972	1:20,000	03.13
H-8174	1977	1:20,000	03.10
H-8122	1977	1:5,000	01.04

NOS CHART 12216, JUNE 1981 1:40,000

HYDROGRAPHIC SURVEY INDEX

best copy available

Seafor

DELAWARE–
NEW JERSE

1:100 000-scale
topographic-bat

30 X 60 MINUTE QUAD
SHOWING

- Contours and
- Highways, roa
  manmade stru
- Water features
- Woodland area
- Geographic na
- Bathymetric c

U.S. GEOLOGI
NATIONAL

198

Produced by the United States Geo
and the National Ocean Service

Topographic M

38075-E1-TB-100

Seaford

DELAWARE – MARYLAND
NEW JERSEY

1:100 000-scale *metric*
topographic-bathymetric map

30 X 60 MINUTE QUADRANGLE SHOWING

- Contours and elevations in meters
- Highways, roads and other manmade structures
- Water features
- Woodland areas
- Geographic names
- Bathymetric contours in meters

U.S. GEOLOGICAL SURVEY
NATIONAL OCEAN SERVICE

1984

Produced by the United States Geological Survey
and the National Ocean Service

Compiled from USGS 1:24 000-scale topographic maps dated 1958-1983
Planimetry, revised from aerial photographs taken 1981 and other source data. Revised information not field checked. Map edited 1984

Bathymetry compiled by the National Ocean Service from hydrographic surveys. This information is not intended for navigational purposes

Mean high water (dotted) line and mean high water (heavy solid) line compiled by NOS from tide coordinated aerial photographs. Apparent shoreline (outer edge of vegetation) shown by light solid line

Projection and 10 000-meter grid, zone 18, Universal Transverse Mercator
2 500-foot grid ticks based on Delaware coordinate system
and Maryland coordinate system. 1927 North American Datum
To place on the predicted North American Datum 1983, move the projection lines 8 meters south and 31 meters west

Offshore protraction survey data, shown in red furnished by the Minerals Management Service. Heavy lines indicate limits of Outer Continental Shelf Official Protraction Diagram dated October 31 1974. The protractions on this map are not for Federal leasing purposes, for such purposes, refer to OCS Official Protraction Diagrams available from the Minerals Management Service

There may be private inholdings within the boundaries of the National or State reservations shown on this map

CONTOUR INTERVAL 5 METERS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
ELEVATIONS SHOWN TO THE NEAREST METER
BATHYMETRIC CONTOUR INTERVAL 2 METERS WITH SUPPLEMENTARY 1 METER CONTOURS. MEAN LOWER LOW WATER DATUM
THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE

BASE MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS. BATHYMETRIC SURVEY DATA COMPLIES WITH INTERNATIONAL HYDROGRAPHIC ORGANIZATION (IHO) SPECIAL PUBLICATION 44 ACCURACY STANDARDS AND/OR STANDARDS USED AS OF THE DATE OF THE SURVEYS

CONVERSION TABLE

Meters	Feet
1	3.2808
2	6.5617
3	9.8425
4	13.1234
5	16.4042
6	19.6850
7	22.9659
8	26.2467
9	29.5276
10	32.8084

To convert meters to feet multiply by 3.2808

To convert feet to meters multiply by 0.3048

DECLINATION DIAGRAM

UTM grid convergence (GN) and 1984 magnetic declination (MN) at center of map
Diagram is approximate

ADJOINING MAPS

1	2	3
4		5
6	7	8

1 Baltimore
2 Dover
3 Atlantic City
4 Washington East
5 Cape May
6 Lewes-Rehoboth
7 Salisbury
8

FOR SALE BY U.S. GEOLOGICAL SURVEY
DENVER, COLORADO 22092, OR RESTON, VIRGINIA 22092
AND NATIONAL OCEAN SERVICE, ROCKVILLE, MARYLAND 20852

Topographic Map Symbols

Primary highway, hard surface
Secondary highway, hard surface
Light duty road, principal street, hard or improved surface
Other road or street, trail
Route marker: Interstate, U.S., State
Railroad: standard gage, narrow gage
Bridge, overpass, underpass
Tunnel: road, railroad
Built up area, locality, elevation
Airport, landing field, landing strip
National boundary
State boundary
County boundary
National or State reservation boundary
Land grant boundary
U.S. public lands survey: range, township, section
Range, township, section line, protracted
Power transmission line, pipeline
Dam; dam with lock
Cemetery, building
Windmill, water well, spring
Mine shaft, adit or cave, mine quarry, gravel pit
Campground, picnic area, U.S. location monument
Ruins, cliff dwelling
Distorted surface: strip mine, levee, sand
Contours: index, intermediate, supplementary
Bathymetric contours: index, intermediate
Stream, lake: perennial, intermittent
Rapids: large and small; falls, large and small
Area to be submerged, marsh, swamp
Land subject to controlled inundation, woodland
Scrub, mangrove
Orchard, vineyard

A pamphlet describing topographic maps is available on request

SEAFORD, DELAWARE – MARYLAND – NEW JERSEY
38075-E1-TB-100
1984

SCALE 1:100 000
1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND
CONTOUR INTERVAL 5 METERS

KILOMETERS 1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
MILES 1 0 1 2 3 4 5 6 7 8 9 10 11 12 13

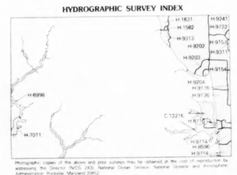
1000 0 5000 10 000 15 000 20 000 METERS
5000 0 10 000 20 000 30 000 40 000 50 000 60 000 FEET

HYDROGRAPHIC SURVEY INFORMATION

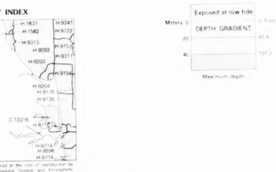
SURVEY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY LINE SPACING (NAUT. MILES)
H-1582	1883	1:20 000	03.90
H-1631	1884	1:20 000	03.90
H-1982	1944	1:10 000	02.17
H-7011	1944	1:10 000	02.81
H-8096	1961-63	1:10 000	02.87
H-8110	1962	1:20 000	05.60
H-8112	1970	1:20 000	05.60
H-8153	1970-71	1:20 000	10.30
H-8154	1970	1:10 000	01.10
H-8176	1970	1:10 000	01.10
H-8200	1971	1:10 000	05.50
H-8202	1971	1:10 000	25.75
H-8204	1971	1:5 000	25.75
H-8241	1971	1:10 000	05.50
H-8311	1972	1:20 000	09.80
H-8313	1972	1:20 000	03.13
H-8714	1977	1:20 000	03.10
H-8722	1977	1:5 000	01.04

NOS CHART 12218 JUNE 1981 1:40 000

HYDROGRAPHIC SURVEY INDEX



Photographic copies of the above and other surveys may be obtained at the cost of reproduction by addressing the Director (N/CG 243), National Ocean Service, National Oceanic and Atmospheric Administration, Rockville, Maryland 20852



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